

CLAIMS

What is claimed is:

1. A continuous molding apparatus comprising a raw material accepting portion,
5 a raw materials supplying portion, a mixing portion, a mixture delivery portion, a molding
portion, a supporting portion, and an indexing portion; said raw material supplying portion
comprising a feed chute; said mixing portion comprising an elongated chamber and means for
mixing; and said molding portion comprising a chamber formed by a supporting portion and
faces of two opposed ram assemblies having a face at one end and a cylinder assembly
10 generating advancing and retracting movement at the other end.

2. A continuous molding apparatus comprising:

- (a) a rear cylinder;
- (b) a rear ram;
- (c) a feed chute;
- 15 (d) a charge chamber;
- (e) a front ram;
- (f) a mold chamber;
- (g) an indexing plate;
- (h) a front cylinder; and
- 20 (i) a supporting frame.

3. The continuous molding device of claim 2, wherein the feed chute is
continuously charged.

4. The continuous molding apparatus of claim 2, wherein the charging chamber functions as a measuring and shaping device prior to the compressing function when the front and rear rams are in the charging position.

5. The continuous molding apparatus of claim 2, wherein the solid top of the rear ram functions as a shutoff valve at the bottom of the feed chute as it progresses from the charge chamber into the mold chamber.

6. The continuous molding apparatus of claim 2, wherein the rear ram and front ram and supporting frame compress the charging material in one axis, in both the positive and negative directions of the axis.

7. The continuous molding apparatus according to claim 2, wherein the rear ram delivers the charging material, once compressed into brick, to an indexing receiver plate.

8. The continuous molding apparatus according to claim 2, wherein the indexing receiver plate travels perpendicularly across the open gap between the front and rear ram.

9. The continuous molding apparatus according to claim 2, wherein the indexing brick or paver receiver plate is positioned perpendicularly, between the front and rear ram faces, to multiple parallel molding units.

10. The continuous molding apparatus according to claim 2, wherein the indexing brick or paver receiver plate is positioned perpendicularly, between the front and rear ram faces, to multiple parallel molding units spaced 30 inches apart on center.

11. The continuous molding apparatus according to claim 9, wherein the indexing brick or paver receiver plate is 5 inches wide, 120 inches long, 3/8 inches thick and may hold 12 bricks or pavers when full.

12. The continuous molding apparatus according to claim 2, wherein the rear ram and front ram and supporting frame form the configuration of a triangle, square, or other design when fully compressing the charging material.

13. A machine for making brick and brick paver, comprising a frame having an indexing plate; a pair of reciprocal ram heads, each driven by a separate dual-action hydraulic cylinder having an internal piston; and a charge chamber having a flat bottom and fed by a feed chute; said pair of ram heads comprising a front ram and a rear ram that move in concert along the flat bottom of said charge chamber, thereby causing the measurement of the correct amount of charge and its positioning into a mold chamber formed by the selective alignment of said ram heads, said flat bottom of said feed chute, and said frame; said rear ram having a solid flat upper surface for sealing off additional charge in said feed chute; said front and rear rams being selectively moveable and stoppable at the right side of said mold chamber, and reversible to appropriate distances and across said indexing plate to home positions, for compressing said charge into an appropriately sized brick or paver, pushing said brick onto said indexing plate, immediately retracting into said mold chamber, and pausing to allow indexing plate to index and receive another brick, and further retracting to its starting position.